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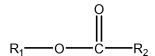
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# Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

# **Listing of Claims**:

- 1. (Previously presented) A nematicidal composition comprising:
  - (a) an effective amount of a compound having the formula



wherein:

 $R_1$  = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, epoxy and a substituted or unsubstituted C1-C2 carbon chain; and

R<sub>2</sub> = a C15-C19 substituted or unsubstituted carbon chain having single bonds between earbons except for a *cis* or *trans* double bond between the 9<sup>th</sup> and 10<sup>th</sup> carbons counting from the carbonyl (C=O) carbon and either: (i) a triple bond between the 12<sup>th</sup> and 13<sup>th</sup> carbons counting from the carbonyl (C=O) carbon or (ii) either a single or double bond between the 12<sup>th</sup> and 13<sup>th</sup> carbons and at least one substituent at one or both of the 12<sup>th</sup> and 13<sup>th</sup> carbons, wherein the substituents are selected from the group consisting of hydroxy, oxo, halogen, amino, cyano, azido, cyclopropane, cyclopropene, epoxy and a substituted or unsubstituted C1-C2 carbon chain; and

- (b) an aqueous surfactant; and
- (c) aldicarb, oxamyl, fenamiphos, fosthiazate or metam sodium.

#### 2-3. (Canceled)

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4. (Previously presented) The nematicidal composition of claim 1 wherein R<sub>1</sub> is a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, epoxy and an unsubstituted C1-C2 carbon chain.

- 5. (Previously presented) The nematicidal composition of claim 1 wherein the C1-C2 carbon chain of one or both of  $R_1$  and  $R_2$  is substituted and the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, and epoxy.
- 6. (Previously presented) The nematicidal composition of claim 1 wherein the C1-C2 carbon chain of one or both of  $R_1$  and  $R_2$  is substituted and the substituents are selected from the group consisting of: hydroxy, halogen, and amino.
- 7. (Previously presented) The nematicidal composition of claim 1 wherein  $R_1$  is a substituted C1 methyl.
- 8. (Previously presented) The nematicidal composition of claim 1 wherein R<sub>1</sub> is a C1-C2 substituted or unsubstituted carbon chain.
- 9. (Previously presented) The nematicidal composition of claim 1 wherein R<sub>2</sub> is a C15-C19 substituted or unsubstituted carbon chain having a *cis* or *trans* double bond between the 9<sup>th</sup> and 10<sup>th</sup> carbons counting from the carbonyl (C=O) carbon and either: (i) a triple bond between the 12<sup>th</sup> and 13<sup>th</sup> carbons counting from the carbonyl (C=O) carbon or (ii) either a single or double bond between the 12<sup>th</sup> and 13<sup>th</sup> carbons and at least one substituent at one or both of the 12<sup>th</sup> and 13<sup>th</sup> carbons, wherein the substituents are selected from the group consisting of hydroxy, oxo, halogen, amino, cyano, azido, cyclopropane, cyclopropene, epoxy and an unsubstituted C1-C2 carbon chain.

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10. (Previously presented) The nematicidal composition of claim 1 wherein the C1-C2 carbon chain of R<sub>2</sub> is substituted and the substituents are selected from the group consisting of: hydroxy, oxo, halogen, amino, cyano, azido, and epoxy.

- 11. (Previously presented) The nematicidal composition of claim 1 wherein the C1-C2 carbon chain of R<sub>2</sub> is substituted and the substituents are selected from the group consisting of: hydroxy, oxo, halogen, azido, and amino.
- 12. (Previously presented) The nematicidal composition of claim 1 wherein the C1-C2 carbon chain of R<sub>2</sub> is singly substituted.

#### 13-14. (Canceled)

- 15. (Previously presented) The nematicidal composition of claim 1 wherein  $R_2$  is substituted only at one or both of  $12^{th}$  and  $13^{th}$  carbons counting from the carbonyl (C=O) carbon.
- 16. (Previously presented) The nematicidal composition of claim 15 wherein  $R_2$  is substituted only at the  $12^{th}$  carbon counting from the carbonyl (C=O) carbon.
- 17. (Previously presented) The nematicidal composition of claim 15 wherein  $R_2$  is substituted only at the  $13^{th}$  carbon counting from the carbonyl (C=O) carbon.
- 18. (Previously presented) The nematicidal composition of claim 15 wherein within R<sub>2</sub> the substituents are polar and are selected from the group consisting of: hydroxy, oxo, epoxy, halogen, amino, cyano and azido.
- 19. (Previously presented) The nematicidal composition of claim 15 wherein within R<sub>2</sub> the substituents are hydrogen bond acceptors and are selected from the group consisting of: hydroxy, oxo, epoxy, amino, cyano and azido.

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20. (Previously presented) The nematicidal composition of claim 15 wherein within R<sub>2</sub> the substituents are selected from the group consisting of: hydroxy, oxo and epoxy.

- 21. (Currently amended) A nematicidal composition comprising:
- (a) an ester of a compound selected from the group consisting of: ricinoleic acid, ricinelaidic acid, 12-oxo-9(Z)-octadecenoic acid, 12-oxo-9(E)-octadecenoic acid, (12,13)-epoxy-trans-9-octadecenoic acid and vernolic acid; and
  - (b) an aqueous surfactant; and
  - (c) aldicarb, oxamyl, fenamiphos, fosthiazate or metam sodium.
- 22. (Previously presented) The nematicidal composition of claim 1 or claim 21 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, Span 20, Span 40, Span 80, Span 85, Tween 20, Tween 40, Tween 80, Tween 85, Triton X 100, Makon 10, Igepal CO 630, Brij 35, Brij 97, Tergitol TMN 6, Dowfax 3B2, Physan and Toximul TA 15.
- 23. (Previously presented) The nematicidal composition of claim 1 or claim 21 wherein the composition further comprises: (c) a permeation enhancer.
- 24. (Previously presented) The nematicidal composition of claim 23 wherein the permeation enhancer is a cyclodextrin.
- 25. (Previously presented) The nematicidal composition of claim 1 or claim 21 where the composition further comprises:
  - (c) a co-solvent.
- 26. (Previously presented) The nematicidal composition of claim 25 wherein the cosolvent is selected from the group consisting of: isopropanol, acetone, 1,2-propanediol, a petroleum based-oil and a mineral oil.

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27. (Cancelled).

28. (Previously presented) The nematicidal composition of claim 1 or claim 21 further comprising an inhibitor of oxidation.

- 29. (Previously presented) The nematicidal composition of claim 28 wherein the inhibitor of oxidation is selected from the group consisting of: butylated hydroxyanisole (BHA) and butylated hydroxytoluene (BHT).
- 30. (Currently amended) The nematicidal composition of claim 1 wherein the composition comprises at least two different compounds having the formula

$$R_1$$
— $O$ — $C$ — $R_2$ 

wherein:

 $R_1$  = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, epoxy and a substituted or unsubstituted C1-C2 carbon chain; and

R<sub>2</sub> = a C15-C19 substituted or unsubstituted carbon chain having single bonds between carbons except for a *cis* or *trans* double bond between the 9<sup>th</sup> and 10<sup>th</sup> carbons counting from the carbonyl (C=O) carbon and either: (i) a triple bond between the 12<sup>th</sup> and 13<sup>th</sup> carbons counting from the carbonyl (C=O) carbon or (ii) either a single or double bond between the 12<sup>th</sup> and 13<sup>th</sup> carbons and at least one substituent at one or both of the 12<sup>th</sup> and 13<sup>th</sup> carbons, wherein the substituents are selected from the group consisting of hydroxy, oxo, halogen, amino, cyano, azido, cyclopropane, cyclopropene, epoxy and a substituted or unsubstituted C1-C2 carbon chain-and

- (b) an aqueous surfactant; and
- (c) aldicarb, oxamyl, fenamiphos, fosthiazate or metam sodium.

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31. (Currently amended) A method for control of unwanted nematodes, the method comprising administering to a vertebrate, a plant, a seed or soil a composition comprising:

(a) a compound having the formula

$$R_1$$
— $O$ — $C$ — $R_2$ 

wherein:

 $R_1$  = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, epoxy and a substituted or unsubstituted C1-C2 carbon chain; and

R<sub>2</sub> = a C15-C19 substituted or unsubstituted carbon chain having single bonds between earbons except for a *cis* or *trans* double bond between the 9<sup>th</sup> and 10<sup>th</sup> carbons counting from the carbonyl (C=O) carbon and either: (i) a triple bond between the 12<sup>th</sup> and 13<sup>th</sup> carbons counting from the carbonyl (C=O) carbon or (ii) either a single or double bond between the 12<sup>th</sup> and 13<sup>th</sup> carbons and at least one substituent at one or both of the 12<sup>th</sup> and 13<sup>th</sup> carbons, wherein the substituents are selected from the group consisting of hydroxy, oxo, halogen, amino, cyano, azido, cyclopropane, cyclopropene, epoxy and a substituted or unsubstituted C1-C2 carbon chain; and

- (b) an aqueous surfactant; and
- (c) aldicarb, oxamyl, fenamiphos, fosthiazate or metam sodium.

### 32-33. (Canceled)

34. (Previously presented) The method of claim 31 wherein R<sub>1</sub> is a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, epoxy and an unsubstituted C1-C2 carbon chain.

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35. (Previously presented) The method of claim 31 wherein the C1-C2 carbon chain of one or both of  $R_1$  and  $R_2$  is substituted and the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, and epoxy.

- 36. (Previously presented) The method of claim 31 wherein the C1-C2 carbon chain of one or both of  $R_1$  and  $R_2$  is substituted and the substituents are selected from the group consisting of: hydroxy, halogen, and amino.
- 37. (Previously presented) The method of claim 31 wherein  $R_1$  is a substituted C1 methyl.
- 38. (Previously presented) The method of claim 31 wherein  $R_1$  is a C1-C2 substituted or unsubstituted carbon chain.
- 39. (Currently amended) The method of claim 31 wherein R<sub>2</sub> is a C15-C19 substituted or unsubstituted carbon chain having single bonds between carbons except for a *cis* or *trans* double bond between the 9<sup>th</sup> and 10<sup>th</sup> carbons counting from the carbonyl (C=O) carbon and either: (i) a triple bond between the 12<sup>th</sup> and 13<sup>th</sup> carbons counting from the carbonyl (C=O) carbon or (ii) either a single or double bond between the 12<sup>th</sup> and 13<sup>th</sup> carbons and at least one substituent at one or both of the 12<sup>th</sup> and 13<sup>th</sup> carbons, wherein the substituents are selected from the group consisting of hydroxy, oxo, halogen, amino, cyano, azido, cyclopropane, cyclopropene, epoxy and an unsubstituted C1-C2 carbon chain.
- 40. (Previously presented) The method of claim 31 wherein the C1-C2 carbon chain of R<sub>2</sub> is substituted and the substituents are selected from the group consisting of: hydroxy, oxo, halogen, amino, cyano, azido, and epoxy.
- 41. (Previously presented) The method of claim 31 wherein the C1-C2 carbon chain of R<sub>2</sub> is substituted and the substituents are selected from the group consisting of: hydroxy, oxo, halogen, azido, and amino.

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42. (Previously presented) The method of claim 31 wherein the C1-C2 carbon chain of  $R_2$  is singly substituted.

### 43-44. (Canceled)

- 45. (Previously presented) The method of claim 31 wherein  $R_2$  is substituted only at one or both of  $12^{th}$  and  $13^{th}$  carbons counting from the carbonyl (C=O) carbon.
- 46. (Previously presented) The method of claim 45 wherein  $R_2$  is substituted only at the  $12^{th}$  carbon counting from the carbonyl (C=O) carbon.
- 47. (Previously presented) The method of claim 45 wherein  $R_2$  is substituted only at the  $13^{th}$  carbon counting from the carbonyl (C=O) carbon.
- 48. (Previously presented) The method of claim 45 wherein within R<sub>2</sub> the substituents are polar and are selected from the group consisting of: hydroxy, oxo, epoxy, halogen, amino, cyano and azido.
- 49. (Previously presented) The method of claim 45 wherein within R<sub>2</sub> the substituents are hydrogen bond acceptors and are selected from the group consisting of: hydroxy, oxo, epoxy, amino, cyano and azido.
- 50. (Previously presented) The method of claim 45 wherein within  $R_2$  the substituents are selected from the group consisting of: hydroxy, oxo and epoxy.
- 51. (Currently amended) A method for control of unwanted nematodes, the method comprising administering to a vertebrate, plant, seed or soil a composition comprising:

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(a) an ester of a compound selected from the group consisting of: ricinoleic acid, ricinelaidic acid, 12-oxo-9(Z)-octadecenoic acid, 12-oxo-9(E)-octadecenoic acid, (12,13)-epoxy-trans-9-octadecenoic acid and vernolic acid; and

- (b) an aqueous surfactant; and
- (c) aldicarb, oxamyl, fenamiphos, fosthiazate or metam sodium.
- 52. (Previously presented) The method of claim 31 or claim 51 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, Span 20, Span 40, Span 80, Span 85, Tween 20, Tween 40, Tween 80, Tween 85, Triton X 100, Makon 10, Igepal CO 630, Brij 35, Brij 97, Tergitol TMN 6, Dowfax 3B2, Physan and Toximul TA 15.
- 53. (Previously presented) The method of claim 31 or claim 51 wherein the composition further comprises:
  - (c) a permeation enhancer.
- 54. (Previously presented) The method of claim 53 wherein the permeation enhancer is a cyclodextrin.
- 55. (Previously presented) The method of claim 31 or claim 51 wherein the composition further comprises:
  - (c) a co-solvent.
- 56. (Previously presented) The method of claim 55 wherein the co-solvent is selected from the group consisting of: isopropanol, acetone, 1,2-propanediol, a petroleum based-oil and a mineral oil.
  - 57. (Cancelled).
- 58. (Previously presented) The method of claim 31 or claim 51 further comprising an inhibitor of oxidation.

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59. (Previously presented) The method of claim 31 or claim 51 wherein the inhibitor of oxidation is selected from the group consisting of: butylated hydroxyanisole (BHA) and butylated hydroxytoluene (BHT).

- 60. (Previously presented) The method of claim 31 or claim 51 wherein the nematode infects plants and the composition is applied to the soil or to plants.
- 61. (Previously presented) The method of claim 60 wherein the composition is applied to soil before planting.
- 62. (Previously presented) The method of claim 60 wherein the composition is applied to soil after planting.
- 63. (Previously presented) The method of claim 60 wherein the composition is applied to soil using a drip system.
- 64. (Previously presented) The method of claim 60 wherein the composition is applied to soil using a drench system.
- 65. (Previously presented) The method of claim 60 wherein the composition is applied to plant roots.
- 66. (Previously presented) The method of claim 60 wherein the composition is applied to seeds.
- 67. (Previously presented) The method of claim 31 or claim 51 wherein the nematode infects a vertebrate.
  - 68. (Previously presented) The method of claim 67 wherein the vertebrate is a mammal.

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69. (Previously presented) The method of claim 67 wherein the vertebrate is a bird.

- 70. (Previously presented) The method of claim 67 wherein the composition is administered to non-human mammal.
- 71. (Previously presented) The method of claim 67 wherein the composition is administered to a human.
- 72. (Previously presented) The method of claim 67 wherein the composition is formulated as a drench to be administered to a non-human vertebrate.
- 73. (Previously presented) The method of claim 67 wherein the composition is formulated as an orally administered drug.
- 74. (Previously presented) The method of claim 67 wherein the composition is formulated as an injectable drug.

75-84. (Canceled)